

LALSTIM OSMO



WETTABLE POWDER

Improvement of development and quality of ornamental plants

LALSTIM® OSMO contains glycine betaine, an osmolyte naturally enhancing stress tolerance in plants. Glycine betaine is quickly absorbed by the plants, where it maintains the water balance and the normal activity of plant cells during environmental stresses. LALSTIM® OSMO ensures the growth of ornamental plants during unfavorable temperature, light and moisture conditions, and prevents the occurrence of physiological disorders in the plants.

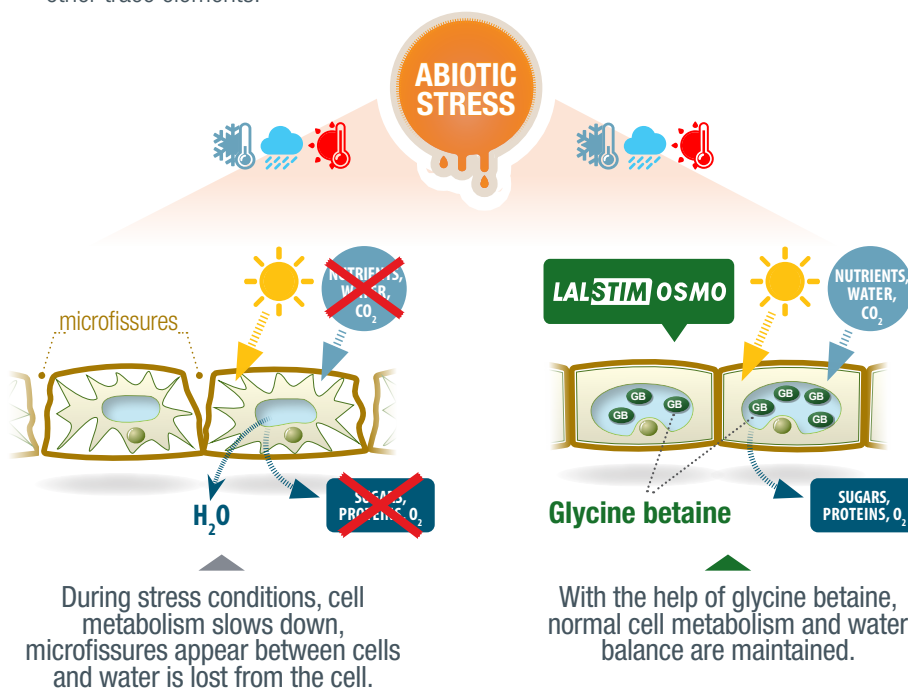
MODES OF ACTION

LALSTIM® OSMO protects the normal physiological activity of plant cells during stress conditions:

- Maintains the water balance and prevents cell damage.
- Enhances photosynthesis.
- Improves the circulatory flow of water and nutrients, especially calcium and other trace elements.

BENEFITS

- Improves growth in difficult growing conditions.
- Reduces physiological disorders of foliage and flowers.
- Improves the water balance of parent plants and cuttings.



ADVANTAGES

- Absorbed within 24 h
- Circulates systemically throughout the plant
- Active for 3 weeks
- A protective compound naturally occurring in plants

APPLICATIONS

CROP	TARGET	DOSE	APPLICATION TIMINGS	APPLICATION METHOD
Ornamental plants	Improving growth and quality during unfavorable conditions.	6 g/l or 2–4 kg/ha (in 400–1000 l of water)	At latest 24h before stress conditions. Repeat every 3 weeks.	Spray plants evenly moist.
	Improving stress tolerance and growth of cuttings.		Spray the parent plants 24h before taking the cuttings and the cuttings one week after taking them.	

- **Compatibility:** can be sprayed together with insecticides, fungicides and foliar fertilizers, except for formulations containing copper.
- Also compatible with the biological fungicide Prestop.
- Using an adjuvant is recommended for plants with waxy leaves.
- The maximum concentration of the spraying solution: 30 g/litre

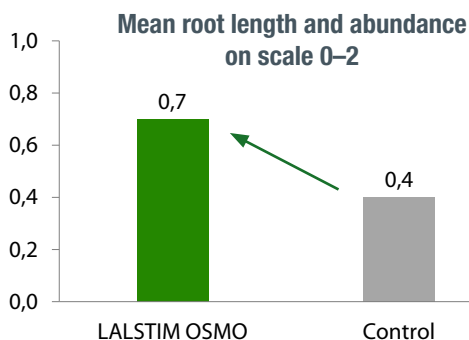
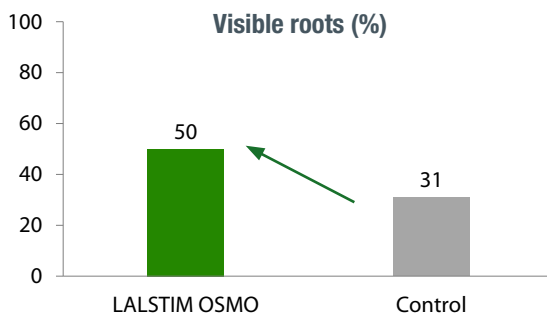
CHARACTERISTICS

- **COMPOSITION:** purified and crystallized glycine betaine from plant origin (97 %)
- **FORMULATION:** wettable powder
- **PACKAGING:** 2 kg
- **STORAGE:** 24 months at room temperature in an unopened package
- **Suitable for organic agriculture**

RESULTS

Rooting improvement of cuttings during stressful conditions

- Trial on moss phlox (*Phlox subulata*) 'Maischnee' in a commercial nursery in Finland. The parent plants were sprayed with LALSTIM OSMO (6 g/l) the day before propagation and the cuttings were resprayed one week after they were taken. The cuttings were exposed to heat stress and uneven substrate moisture during the rooting period. All the observations were made three weeks after the cuttings were taken.



Visible roots observed from under the seedling tray.

